**Mycoplasma**

Bacteria -> none -> Mycoplasma

**Background**

* Aerobic, Fastidious
* Smallest known free-living organism
* Can pass through filters used to sterilize
* Need several outside factors for growth

**Structure**

* Triple cell membrane with sterols
* No cell wall

**Diagnosis**

* Fried-Egg Appearance

**Pathophysiology**

* P1 adhesin binds to cilia base at TLR2 R
* Ciliary movement is stopped
* H2O2 and O2- secreted -> kills cell

*Mycoplasma pneumoniae*

* Aerosol (person-to-person)
* 1-3 week from infection to symptom
* 20% asymptomatic

**Disease**

* Gradual onset
* Fever with no chills
* Dry cough with little sputum
* Malaise, H/A
* <5 yr – URTI
* 5-20 yr – LRTI

**Complications**

* Rash (Erythema multiforme)
* Nonspecific myalgia/arthralgia
* CNS complications
* Raynaud’s phenomenon
* Cardiac abnormalities
* Digital Necrosis
* Guillain-Barre syndrome (associated)
* Asthma (associated)
* COPD (associated)

**Diagnosis**

* Clinical findings
* Cold agglutinin test
* Serology (Ag or Ab)

**Treatment**

* Macrolides
* Tetracyclines
* Quinolones

*M. hominis/genitalium* + *Ureaplasma*

* Genital pathogens
* Vertical Transmission

**Disease**

* Pelvic Inflammatory Disease
* Postabortal/Postpartum Fever
* Nongonoccal Urethritis

**Diagnosis**

* Clincial findings
* Blood/Urine culture

**Treatment**

* Clindamycin (M. hominis)
* Erythromycin (Ureaplasma)